

# ChatGPT Prompt Template for Building Spreadsheets.

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The goal of this template is to help users frame their Excel issues clearly and provide all necessary context so that solutions are accurate and effective.

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## **Prompt Template for Building Spreadsheet Solutions.**

**[Items in brackets are optional ]**

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### **1. General Task Overview**

#### **Task Description:**

Clearly describe the overall task or problem you're encountering in Excel. Be specific about the action or result you're trying to achieve.

*Example:* I need to create a formula that calculates bonuses based on monthly sales, with different percentage bonuses applied to different sales ranges.

- **Goal Clarification (Directional Prompting):**

Provide the ultimate outcome or direction for the solution. This sets a clear objective and focuses the solution in the right direction.

*Example:* I want to know which formula can calculate bonuses using a tiered system: 5% for sales up to \$1,000, 10% for sales between \$1,000 and \$5,000, and 15% for sales above \$5,000.

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### **2. Dataset Context and Structure.**

- **Dataset Description:**

Give a detailed description of your dataset, including column headers, number of rows, data types, and any relevant cell ranges.

*Example:* My dataset contains three columns: "Employee Name" (A), "Monthly Sales" (B), and "Sales Date" (C). Data runs from row 2 to row 100, with total sales amounts in column B.

- **Conditions and Constraints:**

Mention any specific rules or conditions that apply to your data, such as specific

ranges to filter, ignored data, or conditions (this can help Chain-of-Thought problem-solving).

*Example:* Sales less than \$500 should be excluded from the bonus calculation. Only calculate bonuses for sales recorded in 2023.

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### 3. [ Advanced Prompting Techniques: ]

#### [Few-Shot Examples for Guidance]

**Provide a few examples of how the problem should be solved in different situations** to guide the prompt towards a solution. Few-shot prompting helps refine the type of solution generated.

*Example* (for a tiered bonus system):

1. If “Monthly Sales” = \$500, bonus should be 5% of \$500.
2. If “Monthly Sales” = \$2,000, bonus should be 10% of \$2,000.
3. If “Monthly Sales” = \$10,000, bonus should be 15% of \$10,000.

#### [Chain-of-Thought (CoT) Reasoning]

**Ask for step-by-step reasoning in the solution** to make sure the logic is broken down clearly and correctly. This is helpful for complex problems like nested formulas, data analysis, or macros.

*Example:* Can you explain the steps for creating a formula that calculates the total commission based on the sales range, starting with how to identify which range the sales fall into?

#### [Tree-of-Thought (ToT) Exploration]

**Ask for multiple approaches or alternative paths to solve the problem** to ensure robustness. This technique explores multiple ways to approach a problem to increase the likelihood of finding the best solution.

*Example:* Could you explore different approaches to calculate bonuses?

- Option 1: Use a single formula for all calculations.
- Option 2: Use a combination of helper columns to break down the steps.

- Option 3: Automate the calculation with VBA.
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#### 4. Specific Excel Tools, Functions, or Features

- **Excel Tools Involved:**

Mention any specific Excel functions or features you think may be involved (e.g., VLOOKUP, INDEX/MATCH, Power Query, VBA).

*Example:* I believe the IF() function or possibly a nested IF with AND() could be useful, but I'm unsure how to set up the tiering system. Alternatively, a SUMIFS might be required.

- **Formula or VBA vs. Power Query:**

Clarify the preferred method if you have one (e.g., if you prefer using formulas, VBA macros, or Power Query).

*Example:* I would like a formula-based solution, but I'm open to VBA if it simplifies things.

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#### 5. Expected Outcome (Precision and Directional Prompting)

- **Desired Output Format:**

Clearly specify the format or structure of the desired outcome. Precision and direction help in guiding the response towards a solution that fits your exact need.

*Example:* The result should be in a new column (D), with the bonus amount calculated for each employee. If there's no bonus, the cell should display \$0.

- **Check for Accuracy (Directional Prompting):**

Ask for checks or validations in the solution, like testing on sample data to ensure it's correct.

*Example:* Please make sure that the solution works with sales amounts from \$0 to \$10,000, and test it on sample data to verify.

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## 6. Sample Data and Error Details

- **Sample Data (Optional):**

Providing a small sample dataset can clarify your problem. You can type out a few rows or reference cells that contain data.

*Example:*

```
| Employee Name | Monthly Sales | Sales Date |  
|-----|-----|-----|  
| Alice | $1,200 | 01/02/2023 |  
| Bob | $2,500 | 05/12/2023 |  
| Charlie | $7,500 | 08/23/2023 |
```

- **Error or Issue Faced:**

If there's an error message or an unexpected result, include it to provide context (for CoT-style solutions).

*Example:* When using the formula `=IF(B2>500, B2*0.05)`, it calculates the bonus for everyone, even those who have sales below \$500.

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## 7. Version and Platform Information

- **Excel Version and Platform:**

Mention the Excel version and platform (e.g., Excel 365, Excel 2019, Windows, Mac, or Web). Advanced features like dynamic arrays, XLOOKUP, or Power Query may depend on this.

*Example:* I'm using Excel 365 on Windows.

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## 8. [Explore Alternatives (ToT)]

- **Are there any alternative approaches you'd like to explore?**

Exploring alternative solutions can lead to more efficient or creative approaches. You can ask for a Tree-of-Thought exploration of potential methods.

*Example:* Is there a way to automate this bonus calculation through VBA to avoid manual updating in the future? Also, is Power Query a better fit for cleaning and analyzing this data?

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## Common Pitfalls to Avoid.

1. **Over-reliance on specific functions:** Request alternative methods if your preferred function isn't ideal (e.g., "Is INDEX/MATCH better than VLOOKUP here?").
  2. **Unclear goal setting:** Always ensure you articulate the expected outcome clearly (e.g., avoid vague requests like "help with a formula").
  3. **Ignoring version limitations:** Be mindful of which Excel features are available in your version. Ask for alternatives if your version lacks certain functions.
  4. **Not considering dynamic or future data changes:** If your data set or logic will change over time, ask for flexible, dynamic solutions.
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## A Prompt Example:

**Problem:** I need to calculate a tiered bonus structure based on monthly sales for each employee.

**Dataset:** Column A contains "Employee Name," Column B has "Monthly Sales," and Column C has the "Sales Date."

**Goal:** I need to calculate the bonus:

- 5% for sales up to \$1,000
- 10% for sales between \$1,000 and \$5,000
- 15% for sales over \$5,000

The bonus should only be calculated for sales in 2023, and sales under \$500 should be excluded.

**Tools:** I believe an IF or nested IF function could work, but I'm unsure how to handle multiple conditions.

**Expected Outcome:** The result should appear in column D as the bonus amount, or \$0 if no bonus applies.

**Excel Version:** I'm using Excel 365 on Windows.

**Request:** Could you use Chain-of-Thought reasoning to explain the steps and suggest alternative approaches using Tree-of-Thought for more efficient options?



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